PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AU	THORITY				
To: MARINA T. LARSON MARINA LARSON & ASSOCIATES, LLC PO BOX 4928		PCT			
DILLON, CO 80435	·	• • •	UTTEN OPINION OF THE ONAL SEARCHING AUTHORITY		
		·	(PCT Rule 43bis.1)		
		Date of mailing (day/month/year)	28 NOV 2006		
Applicant's or agent's file reference		FOR FURTHER ACTION See paragraph 2 below			
MSK. P-082WO International application No.	International filing date				
PCT/IB06/51199	-		Priority date (day/month/year)		
International Patent Classification (IPC	18 April 2006 (18.04.20) or both national classification	_	18 April 2005 (18.04.2005)		
IPC: A61K 39/395(2006.01), 31/ USPC: 424/130.1;514/44					
Applicant					
SLOAN-KETTERING INSTITUTE FO	OR CANCER RESEARCH		·		
1. This opinion contains indications r	elating to the following item	s;			
Box No. I Basis of t	Basis of the opinion				
Box No. II Priority					
Box NoIII Non-estat	Box NoIII Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of u	Lack of unity of invention				
	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain do	Certain documents cited				
Box No. VII Certain de	Certain defects in the international application				
Box No. VIII Certain ob	III Certain observations on the international application				
2. FURTHER ACTION					
International Preliminary Examini	ng Authority ("IPEA") exc the IPEA and the chosen II	cept that this does a PEA has notified the	not apply where the applicant chooses an International Bureau under Rule 66.1bis(b) red.		
If this opinion is, as provided above IPEA a written reply together, when of Form PCT/ISA/220 or before the	re appropriate, with amendn	ients, before the expi	A, the applicant is invited to submit to the iration of 3 months from the date of mailing hichever expires later.		
For further options, see Form PCT/I	SA/220,				
3. For further details, see notes to Form	n PCT/ISA/220.				
Name and mailing address of the ISA/ U	S Date of completi	on of this opinion	Authorized officer		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450	12 October 2006	. (Peter Redding		
Alexandria, Virginia 22313-1450		1 2	Telephone No. (571) 272-9031		
Facsimile No. (571) 273-3201 Form PCT/ISA/237 (cover sheet) (April 20)05)				

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.	
•-	
DOTTODO CIERROS	
PCT/IB06/51199	

Box No. I Basis of this opinion
 With regard to the language, this opinion has been established on the basis of: the international application in the language in which it was filed a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claims invention, this opinion has been established on the basis of:
a. type of material
a sequence listing table(s) related to the sequence listing
b. format of material on paper
in electronic form
c. time of filing/furnishing contained in the international application as filed. filed together with the international application in electronic form. furnished subsequently to this Authority for the purposes of search.
In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:
Form PCT/ISA/237(Box No. I) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/IB06/51199

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:
the entire international application
claims Nos.
because:
the said international application, or the said claim Nos relate to the following subject matter which does not require an international search (specify):
the description, claims or drawings (Indicate particular elements below) or said claims Nos. 6 and 7 are so unclear that no
meaningful opinion could be formed (specify):
Claims 6 and 7 are improper multiple dependent claims.
the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed (specify):
no international search report has been established for said claims Nos.
a meaningful opinion could not be formed without the sequence listing, the applicant did not, within the prescribed time limit:
firmish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b).
a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.
the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
See Supplemental Box for further details.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB06/51199

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement					
Novelty (N)	Claims 5 and 11	YES			
	Claims <u>1-4,8-10 and 12</u>	_NO			
Inventive step (IS)	Claims 5 and 11	YES			
	Claims <u>1-4,8-10 and 12</u>	NO			
Industrial applicability (L	Claims 1-5 and 8-12	YES			
	Claims NONE	_NO			

2. Citations and explanations:

Claims 1-4, 8-10, and 12 lack novelty under PCT Article 33(2) as being anticipated by US Pat App. Pub 2003/0224993 (Land et al.) 04 December 2003 (04.12.2003).

Land et al. teach a method of reducing the amount of active a6b4 integrin in cancer cells in a patient by the administration of a therapeutic agent targeted to a6b4 that kills the cancer cells, see para 0023, 0312-0340, claims 1-16, 24-40, 64-66. Land et al. teach administering the agents to humans in compositions suitable for human administration, see para 0261-0262, and 0340. Land et al. teach that the anti-a6b4 integrin therapeutic agent is an antibody, para 0049-0078. Land et al. teach that the anti-a6b4 integrin therapeutic agent is an antisense oligonucleotide, see para 0048, 0097-0100, claims 27 and 29. Land et al. teach treating breast, prostate, and cervical cancer cells in vivo, see para 0329 and 0340. Land et al. teach administering the ErbB2 inhibitor Herceptin with the anti-a6b4 integrin therapeutic agent, see para 0313-0314. Land et al. teach that the anti-a6b4 integrin therapeutic agents are used in the preparation of pharmaceutical compositions, see para 0255, 0256, and 0282-0302.

Claims 1 and 3 lack novelty under PCT Article 33(2) as being anticipated by Dajee et al. Nature. February 2003. Vol. 421, pages 639-643.

Dajee et al teach a method of inhibition of tumorigenesis in a mouse tumor model in cells expressing a6b4 integrin by treating with antibodies to a6b4 integrin, see p 640, right column, and Fig. 4C and 4D.

Claims 1-12 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

Form PCT/ISA/237 (Box No. V) (April 2005)